Performance Data Sheet

AEA9423YXA

General Information

Model	AEA9423YXA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
0	Btu/h	1950	1810	1660	1500	1330	1140	943
	Watts	454	426	412	407	406	404	396
	Amps	7.41	7.25	7.13	7.05	6.98	6.91	6.83
	Lb/h	26.7	26.0	25.1	24.0	22.6	20.8	18.5
5	Btu/h	2250	2080	1900	1720	1530	1330	1120
	Watts	475	451	440	439	441	442	436
	Amps	7.46	7.34	7.26	7.20	7.17	7.14	7.09
	Lb/h	30.9	30.0	28.9	27.7	26.1	24.3	22.0
10	Btu/h	2610	2400	2200	1990	1780	1560	1330
	Watts	496	475	468	470	475	480	478
	Amps	7.51	7.42	7.37	7.35	7.35	7.36	7.35
	Lb/h	36.0	34.8	33.6	32.2	30.5	28.6	26.3
15	Btu/h	3010	2780	2540	2310	2070	1830	1580
	Watts	516	498	495	501	510	518	520
	Amps	7.56	7.50	7.48	7.49	7.53	7.57	7.60
	Lb/h	41.8	40.4	38.9	37.4	35.6	33.6	31.3
20	Btu/h	3460	3190	2920	2660	2390	2120	1850
	Watts	535	522	522	532	545	557	562
	Amps	7.60	7.57	7.59	7.63	7.70	7.77	7.84
	Lb/h	48.3	46.6	44.9	43.2	41.3	39.3	36.9
25	Btu/h	3950	3640	3330	3030	2740	2440	2150
	Watts	553	545	549	563	580	596	606
	Amps	7.65	7.65	7.69	7.77	7.87	7.98	8.08
	Lb/h	55.3	53.4	51.5	49.6	47.6	45.4	43.0
30	Btu/h	4460	4110	3760	3430	3100	2770	2450
	Watts	571	567	576	594	616	636	650
	Amps	7.70	7.73	7.80	7.91	8.04	8.18	8.31
	Lb/h	62.8	60.6	58.4	56.3	54.2	52.0	49.6

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.083561E+03	1.783687E+03	1.185688E+01	3.428741E+01
C2	1.192958E+02	-1.115317E+00	-3.184965E-02	1.481240E+00

C3	-1.663445E+01	-3.498639E+01	-1.077491E-01	-2.087610E-01
C4	1.743191E+00	-5.041308E-02	-2.326001E-05	2.067908E-02
C5	-1.069645E+00	7.133045E-02	4.527697E-04	-1.303524E-02
C6	5.969765E-02	2.967990E-01	8.359753E-04	2.397159E-03
C7	-9.854530E-03	2.243271E-05	2.850301E-06	-1.402450E-04
C8	-5.512787E-03	4.528435E-04	-1.592244E-06	-1.653868E-05
C9	3.084705E-03	-4.185562E-05	1.162565E-06	4.875228E-05
C10	-3.576757E-04	-8.407454E-04	-2.307043E-06	-1.224066E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AEA9423YXA

General Information

Model	AEA9423YXA	**Refrigerant**	R-134a
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	3760	3450	3160	2880	2600	2300	1970
	Watts	492	496	507	521	537	552	564
	Amps	7.27	7.27	7.32	7.41	7.51	7.62	7.72
	Lb/h	49.5	46.9	44.9	43.1	41.2	38.8	35.6
25	Btu/h	4190	3860	3560	3270	2980	2680	2360
	Watts	519	524	536	552	570	588	602
	Amps	7.53	7.52	7.57	7.65	7.76	7.88	7.98
	Lb/h	55.1	52.6	50.7	49.1	47.4	45.3	42.6
30	Btu/h	4680	4320	3990	3680	3380	3070	2730
	Watts	545	552	566	584	604	624	642
	Amps	7.75	7.73	7.78	7.86	7.98	8.11	8.23
	Lb/h	61.7	59.1	57.1	55.5	54.0	52.1	49.6
35	Btu/h	5240	4840	4470	4130	3800	3460	3100
	Watts	570	579	595	615	638	661	682
	Amps	7.94	7.92	7.96	8.06	8.19	8.33	8.48
	Lb/h	69.4	66.5	64.4	62.6	61.0	59.1	56.8
40	Btu/h	5880	5420	5010	4620	4250	3870	3490
	Watts	595	606	624	647	673	699	723
	Amps	8.11	8.09	8.15	8.25	8.39	8.56	8.73
	Lb/h	78.3	75.0	72.5	70.5	68.6	66.6	64.2
45	Btu/h	6610	6090	5610	5160	4740	4310	3880
	Watts	619	632	652	678	707	737	765
	Amps	8.28	8.27	8.33	8.45	8.62	8.81	9.01
	Lb/h	88.5	84.6	81.6	79.1	77.0	74.7	72.1
50	Btu/h	7430	6830	6280	5770	5270	4790	4300
	Watts	641	657	680	709	742	775	807
	Amps	8.46	8.46	8.54	8.68	8.87	9.09	9.33
	Lb/h	100	95.5	91.8	88.8	86.1	83.4	80.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.153430E+03	8.174068E+02	7.708322E+00	1.131115E+02
C2	2.768610E+01	7.922119E+00	2.085098E-01	-5.229733E-02

C3	-9.486664E+01	-1.330424E+01	-7.805338E-02	-1.875825E+00
C4	2.285359E+00	-4.105109E-02	-2.922081E-03	3.187158E-02
C5	-6.136067E-02	-5.531547E-02	-1.429352E-03	1.486400E-03
C6	6.381235E-01	1.293887E-01	8.367910E-04	1.536782E-02
C7	1.145944E-02	-2.119786E-04	1.824721E-05	1.607372E-04
C8	-2.388412E-02	5.726430E-04	8.627726E-06	-3.081182E-04
C9	4.493643E-03	3.073569E-04	4.800769E-06	7.657013E-05
C10	-2.267103E-03	-3.880451E-04	-2.541416E-06	-5.321511E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature